## analog SCIENCE FACT A SCIENCE FICTION



In this issue: THE GREAT GRAY PLAGUE by Raymond F. Jones



We call it Thurston's Disease for two perfectly good reasons." Dr. Walker Kramer said. "He discovered it—and he was the first to die of it." The doctor fumbled fruitlessly through the pockess of his lab cost. "Now where the devil did I put those masches?"

## Pandemic

Generally,

human beings don't do totally useless things

consistently and widely.

Sa-maybe there is

something to it-

BY J. F. BONE

"Are these what you're looking foe?" the trim bloode in the gray scersucker uniform asked. She picked a small box of wooden safery maches from the littered lab table beside her and handed them to him. "Ah." Kramer said. "Thanks.

"Ah," Kramer said. "Thanks. Things have a habit of getting lost around here."

"I can believe that," she said as she eyed the frenzied disorder around her. Her boss wasn't much better than his laboratory, she decided as she warched him strike a mutch against the side of the box and apply the flame to the charred bowl of his pipe. His long dark face became half obscured behind a cloud of bluish smoke as he puffed furiously. He looked like a leap untidy devil recently escaped from helt with his thick brows, green eyes and lank black hair highlighted intermittently by the leaping flame of the match. He certainly didn't look like a pathologist. She wondered if she was going to like working with him, and shook her head imperceptibly. Possibly, but nor probably. It might be difficult being cooped up here with him day after day. Well, she could always quit if things got too tough. At least there

was that consolation. He draped his lean body across a



in sool and leaned his elbows on its lack. There was a faint smile on his lack. There was a faint smile on his see as he eyed her quiriscally, see as he eyed her quiriscally, you've new," he said. "Nor just in You've new," he said. "Nor just in You've no ded, "I am, but how did you know?"

you know Thurston's Disease. Everyone in the Institute knows that name for the the Institute knows that name for the chigue, but few outsiders do." He chigue but few outsiders do." He chigue—that's a better term for plague—that's a better term for plague—that's a better term for public use. After all, what good does

public use. After all, what good does it do to advertise a doctor's stupidity?"

She eyed him curiously. "Do mor-

He nodded. That's about it. We may condemn our own, but we don't like laymen doing it. And besides, Thurston had good intentions. He

never dreamed this would happen."

"The road to hell, so I hear, is paved with good intentions."

"Undoubtedly," Kramer said dryly. "Incidentally, did you apply for this job or were you assigned?"

"I applied"

I applied "Someone should have warped you I dislike cliches," he said. He putsed a moment and eyed her curiously. "Why are you imprisoning youstell in a sealed laboratory which you won't knew sealed.

won't leave as long as you work here. You know, of course, what the conditions are. Unless you resign or are carried our feet free first you will remain here. have you considered what

such an imprisonment means?"
"I considered it," she said, "and it doesn't make any difference. I have

no ries cueride and I thought I could help. I've had training. I was a curse before I was married." "Divorced?"

Widowed Kramer nodded. There were plea-

ry of widows and widowers outside.

Too many. Box is wasn't much worse than in the Institute where, despite precautions, Thurston's disease rook its toll of tile.

"Did they tell you this place is called the micide section?" he asked.

"Of dring? Hardly, Too many people are doing it nowadays,"

He grimaced looking more strank than ever. You have a point, he admitted, "but it isn't a good one. Young people should be afraid of

"You're not."

"I'm not young. I'm thirty-five, and besides, this is my business. I've been looking at death for cleven years. I'm immune."

"I haven't your experience," she admitted, "but I have your attinue." "What's your name?" Kramer said.

"Hm-m-m. Well, Mary—I can't turn you down. I need you. But I could with you had taken some other job."

"Ill survive."
He looked at her with faint admiration in his greenish eyes. Perhaps you will," he said. "All right.
As to your duties—you will be up
sessissant, which means you'll be a
dishwasher, laboratory erchacian,

secretary, junior puchologie, and croftee maker. Hi help you with all the jobs except the last case. I make loop coffee." Kramer grimech, his teeth a white lasth across the darkeast of his face. "You'll be on coll recups/our bosts a day, underpaid, overweiched, and in constant danger and the Life Thermose's vistar. Verall the expected to handle the jobs of these people under I can get more bell—and I doubt that I can. People way ways from here in droves.

There's no fucure in it."

Mary smiled wryly. "Literally or figuratively?" she asked.

He chuckled. "You have a nice sense of graveyard humos," he said. "It'll help. But don't get careless. Assistants are hard to find."

sistenes are hard to find."

See shook her head. "I won't.
While I'm not afraid of dying I don't
want to do it. And I have no illusions
about the danger. I was briefed
quite thoroughly."

"They wanted you so work up-

She nodded.

I suppose they need belg, too.
Thurson's Dissues has riddled the
medical position, lust don't forget
that this place can be a death crap,
such, to be a support of the control of the
result, we the every prediction, but
with a vital every prediction, but
with a vital every prediction to
the life of the experiments of the
too in procedure, sooset or later one
of those submitted procedure, sooset or later one
of those submitted
vital get into our system."

"You've still age into our system."

"So I am," Kramer said, "or I don't take chances. My predector, my secretary, my lab technician, "or injunion pathologist, and my distreman all died of Thurston's Disease." It eyed her grimly. Still want the job' he asked.

"I lost a husband and a three-year old son," Mary said with equal gitoness. "That's why I'm here. I wan to destroy the thing that killed my funily. I want to do something. I wan to be useful."

He nodded. "I think you can be," he said quietly, "Mind if I smoke?" she saked. "I

"Mind if I smoke?" she saked, 'I need some defense against that pipe of yours."
"No—go ahead. Out here it's all right, but not in the security section."

Many took a package of cigaretts from her pocker, lit one and blew a cloud of gray smoke to mingle with the blue haze from Kramer's pipe. "Comfortable?" Kramer asked.

She nodded,
He looked at his wrist watch, "We have half an hour before the roll tube cultures are ready for examination.

That should be enough to rell you about the modern Parseur and pui amount virus. Since your duries we'll immune virus. Since your duries we'll relievable prientally involve Thurston's Disease, you'd better know something about it 'He sented hissueff more conformably across the lab beach and wear on milling in a day schoolmast-minimositie. 'Also Thurston was a warmen of the conformation of the conformati

When the Jeaner. Bucan by he one jenner, Pacreur, and The reside was that he pushed The tends was the pushed as a start to careful. He wanted

har well known now," Mary said. what within the profession. Orn. Kramer said dryly. "He of working with gamma radiations of nicroarganisms, trying to proher's nutsted strain of Micrococcus perser that would have enhanced

stignic properties.

Wait a minute, doctor. It's been for pear since I was active in nursin Translation, please."

Kamer chuckled. "He was trying p make a vaccine our of a common sections organism. You may know i bener as Staphylococcus. As you her, it's a pus former that's made jumped from the hospital to the collopital life more dangerous than it lege, and from the college to the stood be because it develops resistace to antibiotics. What Thurston uned to do was to produce a strain the would stimulate resistance in the point without causing diseasemething that would help patients potect themselves rather than rely ton doubtfully effective antibiotics.

That wasn't a bad idea." There was nothing wrong with it. The only trouble was that he wound by with something else entirely. He we like the man who wanted to enke a plastic suitable for children's tops and ended up with a new explothe You see, what Thurston didn't talize was that his cultures were conbeinged. He'd secured them from be University Clinic and had, so he hough, isolated them. But somehow

he'd brought a virus along-probably one of the orphan group or possibly a phage."

"Orphan?" "Yes-one that was not a normal

inhabitant of human tissues. At any gate there was a virus-and be murated it rather than the bacteria. Acmally, it was simple enough, relatively speaking, since a virus is infinirely simpler in structure than a bacterium, and hence much easier to modify with ionizing radiation. So he didn't produce an antigen-be produced a disease instead. Naturally, be contacted it, and during the period herween his infection and death he managed to infect the entire hospieal. Before anyone realized what they were dealing with, the disease

city, and from the city to-"Yes, I know that part of it. It's all over the world now-killing people by the millions."

Well," Kramer said, "at least it's solved the population explosion." He blew a cloud of blue smoke in Mary's direction. "And it did make Thurston famous. His name won't be quickly forgotten.

She coughed. "I doubt if it ever will be," she said, "but it won't be remembered the way he intended." He looked at her suspiciously.

"That cough-" "No, it's not Thurston's Discuse.

It's that pipe. It's rancid." "It helps me think," Kramer said "You could my cigarenes or cardy," she suggested.

"I'd rather smoke a pipe."
"There's cancer of the lip and

tongue, she said helpfully.

"Don't quore Ochsore. I don't da agree with him. And besides, you smoke cigarettes, which are infinisely worse."

oric.

Only four or five a day, I don't
santrace my system with nicotine.

In another generation," Kramer

observed, 'you'd have run through the streets of the city brandishing an ax smashing saloons. You're a lineal descendent of Carrie Nation.' He puffed quietly until his head was surcounded by a nimbus of smoke. 'Stop trying to reform me,' he added. 'You haven't been here long

enough."
"Not even God could do that, according to the reports I've heard,"
the said.

He laughed. "I suppose my reputation gers around."
"It does. You're an opinionsted.

slave driver, a bully, an intellectual tyrant, and the best pathologist in this center."

The last part of that sentence

this center."

The last part of that sentence makes up for unflattering honeary of the first, Kramer said. "At any rare, once we realisted the situation were to work to context it. Bustiants the disease appeared for the sule parts of examining, meating, and experimenting with the hope of findings a cure. This section exists for a cure. This section exists for the evaluation of treatment. We check the human cases, and the primates in

the experimental laboratories, it is our duty to find our if anything the best questions of however any prospens. Best programmed to the property of the prope

mone in this Institute slone.

"And none of them have workel!"

"No—bot that doesn't mean the
work's been useless. The research has
swed others throusnold of man hous
chasing fathe leads. In this boilten
negative results are almost as importance as positive ones. We may never
discover the solution, but out work
will keep others from making the
same mistacks.

"I never thought of it that way." "People seldom do. But if you realize that this is international, that every worker on Thurston's Disease has a niche to fill, the picture will be clearer. We're doing our part inside the plan. Others are, too. And there are thousands of labs involved. Somewhere someone will find the answer. It probably won't be us, but we'll help get the problem solved as quickly as possible. That's the important thing. It's the biggest challenge the race has ever faced-and the most important. It's a question of survival." Kramer's voice was sober. We have to solve this. If Thurston's Disease isn't checked, the human per will become extinct. As a result, for the first cime in history all manhird is working together." All? You mean the Communists

of course. What's an ideology if att. 1002" here are no people to follow it?" time knocked the ashes out of his pie, looked at the laboratory clock and shrugged. "Ten minutes more," he said, "and these tubes will be gody. Keep an eye on that clock and let me know. Meantime you can straighten up this lab and find out where things are. I'll be in the office circking the progress reports." He

mented absorptly away, leaving her moding in the middle of the cluttered laboratory. 'Now what am I supposed to do bere?" Mary wondered aloud. "Clean so, he says. Find our where things are, he says. Get acquainted with the place, he says. I could spend a month doing that," She looked at the littered bench, the wall cabinets

with sliding doors half open, the jars of resgents sitting on the sink, the drainboard, on top of the refrigeratot and on the floor. The disorder was appalling. "How he ever manages to work in here is beyond me.

I suppose that I'd better start somewhere-perhaps I can get these botties in some sort of order first." She lighed and moved toward the wall cabinets. "Oh well," she mused, 'I asked for this."

Dido't you hear that buzzer?" Kramer asked.

PANDENIC

"Was that for me?" Mary said, looking up from a pile of boxles and glassware she was sorting.

"Partly. It means they've sent us another post-mortem from upstairs."

"What is it?"

"I don't know-man or monkey, it makes no difference. Whatever it is, it's Thurston's Disease. Come along. You might as well see what goes on in our ultra modera necropsy saire."

"I'd like so." She put down the bottle she was holding and followed him to a green door at the rear of the laboratory.

"Inside," Krumer said, "you will find a small antercom, a shower, and a dressing room. Strip, shower, and put on a clean set of lab coveralls and slippers which you will find in the dressing soom. You'll find surgical masks in the wall cabinet beside the lockers. Go through the door bewond the dressing room and wair for

me there. I'll give you ten minutes." "We do this both ways," Kramer said as he joined her in the natrow hall beyond the dressing room. "We'll

reverse the process going out." "You certainly carry security to a maximum," she said through the mask that covered the lower part of her face.

"You haven't seen anything yet," he said as he opened a door in the hall. "Note the positive air pressure," he said. Theoretically nothing can get in here except what we bring with us. And we try not to bring anything." He stood uside to show her the glassed-in cubicle overbanging a buse room dominaned by a peliahed seed post-enceuen cable that glimeted in the hanh fluorescent lighting. Above the tube a number of joined roth and clamps bung from the celing A low metal door and series of racks containing instruments and glassware were set into the opposite will together with the gapting circus-

lar orifice of an open sucoclave. We work by remote control, just like they do at the ABC. See those handlers?" He pointed to the control console ser into a small stainless steel table standing beside the sheet of glass at the far end of the cubicle. "They're connected to those gadgets up there." He indicated the jointed arms hanging over the sutopsy table in the room beyond. "I could perform a major operation from here and never rouch the patient. Using these I can do anything I could in person with the difference that there's a quarter inch of glass between me and my work. I have controls that let me use magnifiers, and even do microdissection, if necessary."

"Where's the cadaver?" Mary

"Across the room, behind that

door," he said, waving at the low, sliding metal partition behind the table. "It's been prepped, decontaminated and ready to go."

"Wist happens when you're through?"

"Watch" Dr. Kramer pressed a burton on the console in front of him. A section of flooring stid aside and the table tipped. "The cadaver slides off that table and through that hole.

and Down below is a highly efficient coted masorium.

Mary shivered. "Nest and effer.

tive," she said shakily.

"After that the whole room;

sprayed with germicide and sterilind with live steam. The instrument as into the autoclave, and thirry minute later we're ready for another you, morrors.

We use the handlers to put speci mens into those jars," he said, point ing to a row of capped glass jars of assorted sizes on a wall rack behind the table. "After they're capped the jars go onto that carrier beside the table. From here they pass through a decontamination chamber and into the remote-control laboratory across the hall where we can run biochemical and histological techniques. Pinished slides and mounted specimens then go through another decontuminarion process to the outside lah Theoretically this place is proof against anything."

"It seems to be," Mary said, obviously impressed. Twe never seen anything so elegant." "Neither did I until Thutston's Di-

ease became a problem." Krame shrugged and sar down behind the controls. "Watch, now," he said a be pressed a button. "Lec's see whiti on deck—man or monkey. Want to make a bee? I'll give you two to out it's a monkey."

She shook her head.

The low door slid aside and a stell carriage emerged into the necropal

goon bearing the node body of a man. The coppe gleamed pailadly usder the harsh shadowless glate of the dark the harsh shadowless glate of the flat the shadowless glate of the flat the shadowless glate of the shadowless and the shadowless shadowless and past motives raised in the past motives raised by pashed another lateral the shadowless shadowless glate past the shadowless shadowless glate the shadowless shadowless shadowless shadowless the shadowless shadowless shadowless the shadowless shadowless shadowless the shadowless shadowless shadowless the sha

He moved a handler and pucked up a heavy scalped from the instrument race. There's a ceruan advantage to this," he said as he moved the handler deleasely. These gadgets give a retemendous mechanical advanage. I can cur right through small bones and cartilage without using a xur.

How nice, Mary mid. I expect you enjoy juntiell

I couldn't sak for better equipment, he replaced noncommentally With defit motion of the handler he



cher and along the comel margins to the district levered "Y" succision. We have a lever of the district lever "Ah" Thought so See that" He pounted with a small bandler that carried a probe. Thook at those hings. He away a wewer more place so havy could see better. "Look ar those abscesses and account in the district lever of the

sta its Thurstons Disease, in tigot, with secondary bacterial avaision.

The grayah sold-diffed masses of tissue loaxed noth agi use the normal pink appearance of healthy longs. Studded wan yellow this spherical abscrees they jay wolfen and engoged within the gipping cavily of the chear. You know the pathogenesis of

Thurston's Disease. Kramer asked.

Mary shook her head, her face yellowish-white in the glare of the fluorescenes.

It begons with a bronchial cough," Kramer said. 'The virus arrocks the bronchooles first, descroys them, and passes into the deeper tissues of the lungs. As with most virus diseases there is a transitory leukopenia-a drop to the total number of whice blood cells-and a rise an temperature of abour two or three degrees. As the virus attacks the alveolar procures, the semperature rises and the white book cell count becomes elevated. The lungs become inflamed and painful. There is a considerable quantity of lyraphoid exudate and pleural effusion. Secondary invaders

and pus-forming bacteria follow the

yural destruction of the hing turne

and form abscesses. Breathing becomes progressively more difficult as more lung ussue is destroyed. Hepatuation and necrosis inactivate more lung cistae as the bacteria get in their dirty work, and finally the patient sofficiates."

"But what if the bacteria are controlled by antibiotics?"
"Then the wirus does the job, in

products attletcasts followed by proground persons of lang stone was grown lingsefaction of the parachymit of shore the parachymit of shore the parachymit of the parachyterior that the parachysaced one of here until the was almost dead Probably her laid the anneal one of here until the was almost of the probably her laid the dance for shown a week. If he'd have come un easily, we could have leps him alwey for maybe a month. The end, however would have been the same."

"It's a terrible thing," Mary said fauntly.

You'll get used to it. We get one or evo every day. He shrugged. There is nothing bette that's interesting, he said as he released the changes and uitted the rable. For what seemed to Mary an interminable unse, the colsiver change to the picked seed. Then obsopily it at did not be should be supported to the should be stagent be dear the flow of the should be stagent to the should be supported to

From jets embedded in the walk a fine spray filled the room with for "Germicide." Kramer and "Latt" there'll be steam. That's all for now. Do you want to go?"

Mary nodded "If you feel a little rocky there's a bortle of Scotch in my desk I'll

split a drink with you when we get out of here" "Thanks," Mary said. "I think I

could use one."

Barron' Where is the MacNeal stant!" Kramer's voice came from the lab. "I left it on the sink and it's gone!"

"It's with the other blood stains and rengents. Second drawer from the right in the big cabinet. There's a label on the drawer," Mary called from the office "If you can wait unell I finish filing these papers, I'll come in and help you."

"I wish you would," Kramer's voice was faintly exasperated "Ever since you've organized my lab I can't find anything."

"You just have a disorderly mind," Mary said, as she slipped the last paper into its proper folder and closed the file. "I'll be with you in a minute."

"I don't dare lose you," Kramer eated as Mary came into the lab-"You've made yourself indispensable It'd take me six months to undo what you've done in one Not that I mind," he amended, "but I was used to things the way they were." He looked around the orderly laboratory with a mixture of pride and annoyance. "Things are so near they're almost prinful."

"You look more like a pathologist should," Mary said as she defely removed the tray of blood slides from an from of him and began to run the stains. "It's my job to keep you free

to think " "Whose brilliant idea is that?

Yours?"

"No-the Directors. He told me what my duries were when I came here. And I think he's right. You should be using your brain rather than fooling around with blood stains and sectioning rissues."

But I like to do things like that," Kramer processed. "It's relaxing."

"Whar right have you to relax," Mary said 'Outside people are dyone he the rhousands and you want to relax. Have you looked at the latest mortality reports."

You should. The WHO escurates that nearly two billion people have died since Thurston's Disease first appeared an epidemic proportions That's two out of three. And more are dying every day. Yet you want to tejra,

I know, Kramer said, "but what can we do about it We're working but we're getting no results."

"You might use that brain of yours," Mary said betterly "You to supposed to be a scientist. You have facts. Can't you put them together? I don't know" He strugged. Twe been working on this problem longer than you think I come down bern at night--

"I know I clean up after you." "I haven't gotten snywhere. Sure,

we can isolate the wreak It grows nicely on monkey lung cells. But that deem't help. The thung has no apparent anugenosity It parasitizes, but it doesn't trigget any immune reaction. We can kill it, but the strength of the germende as too great for living issue to solernes.

"Some people seem to be immune."
"Sure they do—but why?"

"Don't ask me I'm not the scien-

turt. "Hey like oor," Kramer growled. "Here set she facts. The disease suffere set she facts. The disease suffere set she facts. The disease set she fact she fact set she fac

"It's awful!" Mary said

"It's worse than that It's extinction.
Without kids the race will die out."
Kramer rubbed his forehead.

"Have you any ideas?"

"Children have less resistance,"
Kramer replied, "An adult gets exposed to a number of diseases to
which he builds an immunity. Poesibly one of these bas a cross immunity
against Thurston's virus."

"Then why don't you work on that line?" Mary asked.

"Just what do you think I've been doing? That idea was put out months ago, and everyone has been taking a crack at at. There are twenty-four laboratories working full time on that facet and God knows how many more working part time like we are I've screened a dozen common disease, including the 5tx varieties of the common cold virus. All, incidentally, were necessity.

"Well-are you going to keep on

with it?"

Thave to "Kramer rubbed has eyes." It won it for me sleep I may seek eyes. "It won it for me sleep I may seek eyes." It won it for me should be an abilit got given han resistance or an abilit got given han resistance of the should be suffered to a sum of the should be suffered by the should be suffered by the should be suffered as pape. "It give it another dated as pape." It give it another dated as pape. "It give it another dated as pape."

"Sometimes I wish you'd read without puffing on that thing," Mary said. "Your delicate nose will be the death of me yet..." Kramer said.

"It's my lungs I'm worried about,"
Mary said. "They'l probably look like
two pieces of well-tanned leather if I
associate with you for another year."

Stop complaning You've gottes me to wear clean lab coars. Be sain-fied with a limited victory," Kraner sain-fied with a limited victory," Kraner saint absently, his eyes staring unseeningly at a row of reagent bortles on the bench Abruphy he nodded "Fansaci," he mattered, "but rick worth a check." He left the room, slamming the door behind him in his hurry.

That man!" Mary murmured. "He'd

drive a saint out of his mind If I

wasn't so fond of him I'd quit. If

aprone rold me I'd fall in love with a pathologist, I'd have said they were coay. I wish-" Whatever the wish ent it wasn't uttered. Mary gasped and coughed rackingly. Carefully she moved back from the bench, opened a drawer and found a thermometer. She put it in her mouth. Then she drew a drop of blood from her forefinger and filled a red and white cell piperte, and made a smear of the remainder.

She was interrupted by another spasm of coughing, but she waited until the paroxysm passed and went methodically back to her self-appointed task. She had done this many times before. It was routine procedure to check on anything that might be Thurston's Disease, A cold, a sore throat, a slight difficulty in breathing -all demanded the diagnostic check. It was as much a habit as breathing. This was probably the result of that cold she'd gotten last week, but there was nothing like being sure. Now let's see-temperature 99.5 degrees, red cell count 41/2 million. White cell coune . . . oh! 2500 . . . leukopenia! The differential showed a virtual absence of polymorphs, lymphocytes and monocytes. The whole slide didn't have two hundred. Eosinophils and basophils way up-twenty and fifteen per cent respectively-a relative rise rather than an absolute one -leukopenia, no doubt about it.

She shrugged. There wasn't much question. She had Thurston's Disease. Ir was the beginning stages, the harsh cough, the slight temperature, the leukopenia. Pretty soon her white cell

count would begin to rise, but it would rise too late. In fact, it was already too late. It's funny, she thought. I'm going to die, but it doesn't frighten me. In fact, the only thing that bothers me is that poor Walter is going to have a terrible time finding things. But I can't put this place the

way it was. I couldn't hope to. She shook her head, slid gingerly off the lab stool and went to the half door. She'd better check in at the clinic, she thought. There was bed space in the hospital now. Plenty of it, That hadn't been true a few months ago but the only ones who were dying now were the newborn and an occasional adult like herself. The epidemic had died our not because of lack of virulence but because of lack of victims. The ciry outside, one of the first affected, now had less than forty ner cent of its people left alive. It was a hollow shell of its former self, People walked its streets and went through the motions of life. But they were nor really alive. The vital criteria were as necessary for a race as for an individual. Growth, reproduction, irritability, metabolism-Mary smiled wrely. Whoever had authored that

right he was, particularly when one of The esce couldn't reproduce. That was the true horror of Thurston's Disease-not how it killed but who it killed. No children played in the parks and playerounds. The schools were empty. No babies were pushed in carriages or taken on tours through

hackneyed mnemonic that life was a

grim" proposition never knew how

the criteria was missing.

the supermarkets in shopping cares. No advertisements of montherboods, or children's things were in other through the supermarket of the supermark

It was odd, she thought, how wrong the prophets were. When Thurston's Disease broke into the news there were frightened predictions of the end of civilization. But they had not materialized. There were no mass insurrections, no rioting, no organized violence. Individual excesses, yesbut nothing of a group nature. What little panic there was at the beginning disappeared once people realized that there was no place to go. And a grim passivity had settled upon the survivors. Civilization did not break down. It endured. The mechanics remained intact. People had to do something even if it was only routine counterfeir of normal lifethe stiff upper lip in the face of disaster.

It would have been far more odd, Mary decided, if mankind had given way to panic. Humanity had survived other plagues nearly as tetrible as this—and racial memory is long. The same grim patience of the past was here in the present. Man would somehow stavive, and d'villustion go on.

It was inconceivable that mankind would become extinct. The whole wast resources and pooled intelligence of surviving humanity were focusal upon Thurston's Disease, And the disease would yield. Humanity wait. ed with childlike confidence for the miracle that would save it. And the miracle would happen. Mary knew in with a calm certainty as she stood in the cross corridor at the end of the hall, looking down the thirty yards of tile that separated her from the elawasor that would carry her up to the clinic and oblivion. It might be too late for her, but not for the race. Nature had tried unaided to destroy than before-and had failed. And her unholy alliance with man's genius would also feil

She wondered as she walked down the corridor if the others who had sickened and died felt as she did. She speculated with grim amusement whether Walter Kramer would be as impersonal as he was with the others when he performed the post-morrem on her body. She shivered at the thought of that bare sterile room and the shining table. Death was not a pretty thing. But she could meet it with resignation if not with courage. She had already seen too much for it to have any meaning. She did not fal--ter as she placed a finger on the elevator button.

Poor Walter—she sighed. Sometimes it was harder to be among the living. It was good that she didn't let him know how she feir. She had sensed a change in him recently. His friendly impersonality had become merely friendly. It could, with a little encouragement, have developed into something else. But it wouldn't now. She sighed again. His hardness had been a rower of strength. And his bitter gallows humor had furnished a ary relief to grim reality. It had been nice to work with him. She wondered if he would miss her. Her lips outled in a faint smile. He would if only for the trouble he would have in making chaos out of the order she had created. Why couldn't that elevator hurry?

Maryl Where are you going? Kramer's voice was in her ears, and his hand was on her shoulder.

"Don't touch me!" "Why not?" His voice was curiously different Younger, excited.

"I have Thurstoo's Disease," she said. He didn't let go. "Are you sure?"

The presumptive tests were positive." "Initial stages?" She nodded. "I had the first cough-

ing attack a few minutes ago." He pulled her away from the elevator door that suddenly slid open. You were going to that death trap

upstairs," he said "Where else can I go?"

"With me," he said. "I think I can help you. "How? Have you found a cure for

the virus?" "I think so. At least it's a better possibility than the things they're using up there." His voice was urgent.

mack ' "Are you sare you're right?"

"And to think I might never have seen it if you hadn't put me on the "Nor absolutely, but the facts fit.

The theory's good." "Then I'm going to the clinic. I

can't risk infecting you. I'm a carrier now. I can kill you, and you're too imnomant to die." "You don't know how wrong you

are." Kramer said.

"Let go of me!" "No-you're coming back!"

She twisted in his grasp. Let me go!" she sobbed and broke into a

fit of coughing worse then before. "What I was trying to say," Dr. Kramer said into the silence that followed, "is that if you have Thurston's Disease, you've been a carrier for at least two weeks. If I am going to get

it, your going away can't help. And if I'm not, I'm not." "Do you come willingly or shall I

knock you unconscious and drag you back?" Kramer asked. She looked at his face. It was grim-

mer than she had ever seen it before. Numbly she let him lead her back to the laboratory.

But, Walter-I can't. That's sixty in the past ten hours!" she protested "Take it," he said grimly, "then take another. And inhale. Deeply."

But they make me dizzy. "Better dizzy than dead. And, by

the way how's your chest?" Better. There's no pain now, But the cough is worse."

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"It should be,"

"Why?""

"You've never smoked enough to get a cigarette cough," he said. She shook her head dizzily. "You're so right," she said.

"And that's what nearly killed you," he finished triumphanely.

"Are you sure?"

"I'm certain. Naturally, I can't prove it-yet. But that's just a matter of time. Your response just about clinches it. Take a look at the recnot to smoke. Funny, isn't it? ords. Who gets this disease? Youngsters-with nearly one bundred per cent morbidity and one hundred per cent mortality. Adults-less than fifty per cent morbidity-and again one hundred per cent mortality. What makes the other fifty per cent immune? Your crack about leather lungs started me thinking-so I fed the data cards into the computer and keyed them for smoking versus incidence. And I found that not one heavy smoker had died of Thurston's Disease. Light smokers and ponsmokers-plenty of them-but not one single nicotine addict. And there were over ten thousand randomized cards in that spot check. And there's the exact reverse of that classic experiment the lung cancer boys used to sell their case. Among certain religious groups which prohibit smoking there was nearly one hundred per cent moreality of all ages!

"And so I thought since the disease was just starting in you, perhaps I could stop it if I loaded you with tobacco smoke. And it works!" You're not certain yet," Mary said.

I might not have had the disease. "You had the symptoms. there's virus in your sputurn."

"Yes, bur-"

"But, nothing! I've passed the word -and the boys in the other labs figure

that there's merit in it. We're going to call it Barton's Therapy in your hopor, It's going to cause a minor social revolution. A lot of laws are going to have to be rewritten. I can see where it's going to be illegal for children

Twe contacted the maternity ward. They have three babies still alive upstairs. We get all the newborn in this town, or didn't you know. Funny, isn't it, how we still try to reproduce. They're rigging a smoke chamber for the kids. The head nurse is screaming like a wounded tiger, but she'll feel better with live babies to care for. The only had thing I can see is that it may cut down on her chain smoking. She's been worried a lot about infant mortality.

"And speaking of nurseries-that reminds me. I wanted to ask you something."

Yes?

"Will you marry me? I've wanted to ask you before, but I didn't dare. Now I think you owe me something -your life. And I'd like to take care of it from now on."

"Of course I will," Mary said. "And I have reasons, too. If I marry you, you can't possibly do that silly thing you

plan." "What thing?"

"Naming the treatment Barton's. It'll have to be Kramer's."